

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): An inverter power module for use in an electric and electronic product, comprising:

a power block;

an inverter block;

a mainboard on which the power block is arranged; and

a sub-board on which the inverter block is arranged, wherein the sub-board is mounted on the mainboard.

2. (previously presented): The module according to claim 1, wherein the power block comprises a plurality of first elements through hole-mounted on a front side of the mainboard and a sub-board mounting part for mounting the sub-board is provided on one portion on a front side of the mainboard.

3. (original): The module according to claim 2, wherein the sub-board mounting part comprises at least one connector and the sub-board comprises a pin header corresponding to the connector.

4. (original): The module according to claim 3, wherein the inverter block comprises second elements surface-mounted on one side of the sub-board.
5. (original): The module according to claim 3, wherein the inverter block comprises second elements mounted on front and back sides of the sub-board.
6. (withdrawn): The module according to claim 1, wherein the power block comprises a plurality of first elements through hole-mounted on a front side of the mainboard and a sub-board mounting part for mounting the sub-board is prepared on one portion on a back side of the main board.
7. (withdrawn): The module according to claim 6, wherein the sub-board mounting part has a predetermined metal pattern and the sub-board has a pad corresponding to the metal pattern.
8. (withdrawn): The module according to claim 7, wherein the inverter block comprises second elements surface-mounted on one side of the sub-board.
9. (withdrawn): The module according to claim 7, wherein the inverter block comprises second elements mounted on front and back sides of the sub-board.
10. (previously presented): An inverter power module for use in an electric and electronic product, comprising:

a mainboard on which a plurality of first elements are through hole-mounted;
a sub-board on which a plurality of second elements are surface-mounted,
wherein a connector for mounting the sub-board in a through hole-mounting manner is provided on a side of the mainboard where the first elements are mounted, and a pin header corresponding to the connector is provided on the sub-board,

wherein the first elements comprise a line filter; X-cap; Y-cap; a power-IC; an input rectifying block comprising a first switching FET; an output rectifying block comprising a diode, an inductor, and a capacitor; and a feedback circuit block comprising a photocoupler, a power transformer, and an inverter transformer, and

the second elements comprise a dimming element; an inverter-IC; a second switching FET; a third switching FET; a first protection element; and a second protection element.

11. (canceled).

12. (withdrawn): An inverter power module for use in an electric and electronic product, comprising:

a mainboard on which a plurality of first elements are through hole-mounted; and
a sub-board on which a plurality of second elements are surface-mounted,
wherein a predetermined metal pattern for mounting the sub-board in a surface-mounting manner is formed on a back side of the mainboard where the first elements are mounted and a pad corresponding to the metal pattern is provided on the sub-board.

13. (withdrawn): The module according to claim 12, wherein the first elements comprise a line filter; X-cap; Y-cap; a power-IC; an input rectifying block comprising a first switching FET; an output rectifying block comprising a diode, an inductor, and a capacitor; and a feedback circuit block comprising a photocoupler, a power transformer, and an inverter transformer, and

the second elements comprise a dimming element; an inverter-IC; a second switching FET; a third switching FETs; a first protection element; and a second protection element.

14. (original): The module according to claim 2, wherein the plurality of first elements are dual-in-line package-mounted on the front side of the mainboard.

15. (withdrawn): The module according to claim 6, wherein the plurality of first elements are dual-in-line package-mounted on the back side of the mainboard.

16. (original): An inverter power module for use in an electric and electronic product, comprising:

a power block;

an inverter block;

a mainboard on which the power block is arranged;

a sub-board on which the inverter block is arranged; and

means for releasably mounting the sub-board on the mainboard.

17. (previously presented): The module according to claim 16, wherein the power block comprises a line filter; X-cap; Y-cap; a power-IC; an input rectifying block comprising a first switching FET; an output rectifying block comprising a diode, an inductor, and a capacitor; and a feedback circuit block comprising a photocoupler, a power transformer, and an inverter transformer, and

second elements of the inverter block comprise a dimming element, an inverter-IC, a second switching FET, a third switching FET, a first protection element, and a second protection element.

18. (withdrawn): The module according to claim 16, wherein the means for releasably mounting the sub-board on the mainboard comprises one of a first mounting member and a second mounting member, wherein the second mounting member is complementary to the first mounting member, disposed on the sub-board, and another of the first mounting member and the second mounting member disposed on the mainboard.

19. (withdrawn): A method for assembling an inverter power module, said method comprising:

substantially aligning a first mounting member disposed on a sub-board comprising an inverter block, with a second mounting member disposed on a mainboard comprising a power block;

releasably joining the first mounting member with the second mounting member.

20. (withdrawn): The method as recited in claim 19, wherein the releasably joining comprises fastening the first mounting member to the second mounting member.

21. (withdrawn): The method as recited in claim 20, wherein fastening the first mounting member to the second mounting member comprises through hole-mounting.

22. (previously presented): The module according to claim 1, wherein the inverter block receives a direct current from the power block to generate an alternating current.

23. (previously presented): The module according to claim 10, wherein the second elements receive a direct current from the first elements to generate an alternating current.

24. (previously presented): The module according to claim 16, wherein the inverter block receives a direct current from the power block to generate an alternating current.

25. (new): The module according to claim 1, wherein the inverter block comprises an inverter-IC.

26. (new): The module according to claim 25, wherein the inverter block further comprises two switching FETs and two protection elements.

27 (new): The inverter power module according to claim 16, wherein the inverter block comprises an inverter-IC.

28. (new): The inverter power module according to claim 27, wherein the inverter block further comprises two switching FETs and two protection elements.